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Indian Standard

CLASSIFICATION OF TERMS FOR SHUTTLES

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CLASSIFICATION OF TERMS FOR SHUTTLES

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(*Continued on page* 2)

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Indian Standard

CLASSIFICATION OF TERMS FOR SHUTTLES

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 10 January 1978, after the draft finalized by the Textile Mill Accessories (Other Than Jute) Sectional Committee had been approved by the Textile Division Council.

0.2 This standard has been prepared with a view to eliminating ambiguity and confusion arising from local interpretation of terms relating to shuttles.

0.3 In the formulation of this standard, due weightage has been given to the international co-ordination among the standards and practices prevailing in different countries. This has been met by basing it on ISO 1586-1977 'Shuttles — Terms and designation in relation to the position of the shuttle eye' issued by the International Organization for Standardization.

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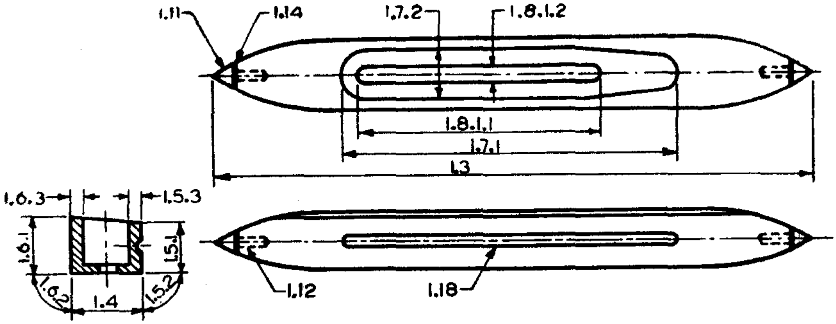
1. SCOPE

1.1 This standard gives illustrated classification of terms for shuttles used in conventional weaving looms.

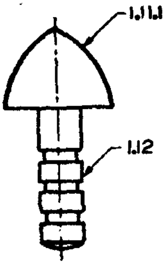
1.1.1 For the purpose of classification, shuttles have been divided in the following groups:

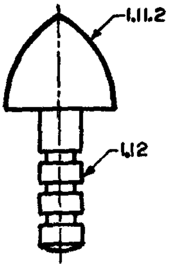
Group No.	*Shuttles Covered*
1	Shuttle, general
2	Shuttle for automatic loom
3	Shuttle with spindle
4	Shuttle with cover

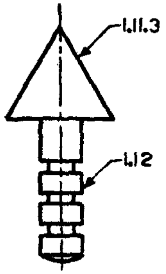
1. SHUTTLE, GENERAL

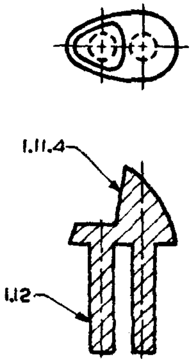


Classification No.	Nomenclature	Classification No.	Nomenclature
1.1	Weft exit right side	1.7.2	Width of cut-out
1.2	Weft exit left side	1.7.3	Depth of cut-out
1.3	Overall length of shuttle	1.7.4	Lining of cut-out
1.4	Width of shuttle	1.7.4.1	— with fur
1.5	Front wall of shuttle	1.7.4.2	— with plush
1.5.1	Height of front wall	1.7.4.3	— with nylon loops
1.5.2	Angle of front wall	1.7.4.4	— with bristles
1.5.3	Thickness of front wall	1.7.4.5	— without lining
1.6	Back wall of shuttle	1.8	Bottom of shuttle
1.6.1	Height of back wall	1.8.1	Bottom slot
1.6.2	Angle of back wall	1.8.1.1	Length of slot
1.6.3	Thickness of back wall	1.8.1.2	Width of slot
1.7	Cut-out of shuttle	1.9	Material of shuttle
1.7.1	Length of cut-out	1.10	Mass of shuttle



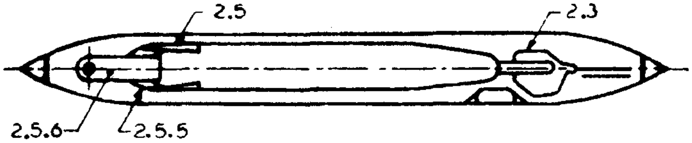






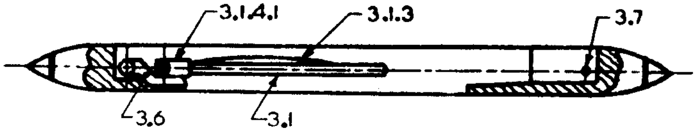
Classification No.	Nomenclature	Classification No.	Nomenclature
1.11	Tip of shuttle	1.16	Weft exit
1.11.1	— half blunt (dumpy)	1.16.1	— top withdrawal (high discharge)
1.11.2	— blunt	1.16.2	— centre withdrawal (centre discharge)
1.11.3	— sharp (straight)	1.16.3	— bottom withdrawal (low discharge)
1.11.4	— offset	1.17	Threading device
1.12	Shank of tip	1.17.1	Hand threader
1.13	Material of tip	1.17.2	Self-threading device
1.14	Spacing washer	1.18	Weft slot
1.15	Tension device	1.19	Surface finish
1.15.1	— adjustable		
1.15.2	— non-adjustable		

2. SHUTTLE FOR AUTOMATIC LOOM



Classification No.	Nomenclature	Classification No.	Nomenclature
2.1	Shuttle for automatic pirn changing	2.5	Jaw
2.2	Shuttle for automatic shuttle changing	2.5.1	— machined from solid material
2.3	Self-threading device	2.5.2	— made from strip steel
2.3.1	Eye-retaining bolt	2.5.3	— height of jaw
2.3.2	Cover plate	2.5.4	— number of grooves
2.4	Weft guide pins	2.5.5	— packing piece
2.4.1	— of steel	2.5.6	— pirn guide
2.4.2	— chromium plated	2.6	Feeler slot
2.4.3	— of vitrified ceramic	2.7	Cutter recess

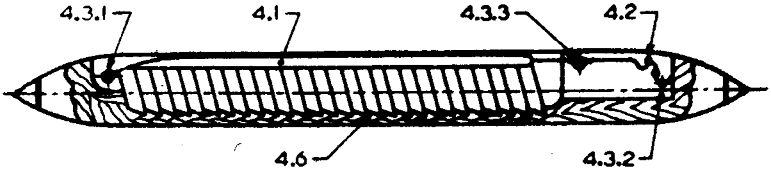
3. SHUTTLE WITH SPINDLE



Classification No.	Nomenclature
3.1	Shuttle spindle
3.1.1	— removable
3.1.2	— pivoted
3.1.3	Spindle spring
3.1.4	Head of tongue
3.1.4.1	— with hole
3.1.4.2	— with slot

Classification No.	Nomenclature
3.2	Single spring tongue
3.3	Double spring tongue
3.4	Four spring tongue
3.5	Pot-hook spring
3.6	Flat spring
3.7	Porcelain eye

4. SHUTTLE WITH COVER



4.1	Shuttle cover
4.2	Cover hook
4.3	Retaining pin
4.3.1	— for cover
4.3.2	— for cover hook
4.3.3	— for support cover
4.4	Cover spring
4.5	Porcelain eye
4.6	Serrations for cop

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

QUANTITY	UNIT	SYMBOL	CONVERSION
Force	newton	N	1 N = 0·101 972 kgf
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m^2
Frequency	hertz	Hz	1 Hz = 1 c/s (s^{-1})
Electric conductance	siemens	S	1 S = 1 A/V
Pressure, stress	pascal	Pa	1 Pa = 1 N/m^2